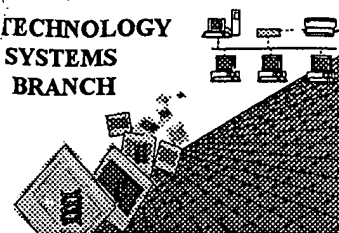# RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: **09/673,785C**
Source: **1600 RUSH**
Date Processed by STIC: **5/6/2003**

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , EFS Submission User Manual - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
           Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery** service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/673,785℃

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 _____ Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 _____ Misaligned Amino
Numbering

The numbering under each 5ᵗʰ amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 _____ Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 _____ Variable Length

Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 _____ PatentIn 2.0
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 _____ Skipped Sequences
(OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 _____ Skipped Sequences
(NEW RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 _____ Use of n's or Xaa's
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 _____ Invalid <213>
Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 _____ Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

1600

RAW SEQUENCE LISTING   DATE: 05/06/2003
PATENT APPLICATION: US/09/673,785C   TIME: 10:23:36

Input Set : A:\8830-170.ST25.txt
Output Set: N:\CRF4\05062003\I673785C.raw

```
 3 <110> APPLICANT: The Queen's University of Belfast
 4        Nelson, John
 5        Walker, Brian
 6        McFerran, Neil
 7        Patrick, Harriot
 9 <120> TITLE OF INVENTION: Peptide Fragments of Murine Epidermal Growth Factor as
Laminin
10        Receptor Targets
12 <130> FILE REFERENCE: 8830-170 (43784-181696)
14 <140> CURRENT APPLICATION NUMBER: US 09/673,785C
15 <141> CURRENT FILING DATE: 2000-12-19
17 <150> PRIOR APPLICATION NUMBER: PCT/GB99/01211
18 <151> PRIOR FILING DATE: 1999-04-21
20 <150> PRIOR APPLICATION NUMBER: 9808407.2
21 <151> PRIOR FILING DATE: 1998-04-22
23 <160> NUMBER OF SEQ ID NOS: 31
25 <170> SOFTWARE: PatentIn version 3.2
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 9
29 <212> TYPE: PRT
30 <213> ORGANISM: Artificial sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Artificial Sequence based on linear sequence of amino acids
34        925-933 of mature muring laminin B1 chain
37 <220> FEATURE:
38 <221> NAME/KEY: MOD_RES
39 <222> LOCATION: (9)..(9)
40 <223> OTHER INFORMATION: AMIDATION
42 <400> SEQUENCE: 1
44 Cys Asp Pro Gly Tyr Ile Gly Ser Arg
45 1               5
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 10
50 <212> TYPE: PRT
51 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: Artificial Sequence based on amino acid residues 33 to 42 of
55        murine epidermal growth factor (mEGF)
57 <400> SEQUENCE: 2
59 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys
60 1               5                   10
63 <210> SEQ ID NO: 3
64 <211> LENGTH: 10
65 <212> TYPE: PRT
```

C-M
Kam

C--> 15 <141> CURRENT FILING DATE: 2000-12-19

Does Not Comply
Corrected Diskette Needed

pp 2-6

RAW SEQUENCE LISTING   DATE: 05/06/2003
PATENT APPLICATION: US/09/673,785C   TIME: 10:23:36

Input Set : A:\8830-170.ST25.txt
Output Set: N:\CRF4\05062003\I673785C.raw

```
      66 <213> ORGANISM: Artificial Sequence
      68 <220> FEATURE:
      69 <223> OTHER INFORMATION: Artificial Sequence
      72 <220> FEATURE:
      73 <221> NAME/KEY: MISC_FEATURE
      74 <222> LOCATION: (5)..(5)
      75 <223> OTHER INFORMATION: tyrosine analogue at position 5
      77 <400> SEQUENCE: 3
W--> 79 Cys Val Ile Gly Xaa Ser Gly Asp Arg Cys
      80 1               5                   10
      83 <210> SEQ ID NO: 4
      84 <211> LENGTH: 10
      85 <212> TYPE: PRT
      86 <213> ORGANISM: Artificial sequence
      88 <220> FEATURE:
      89 <223> OTHER INFORMATION: Artificial Sequence
      92 <220> FEATURE:
      93 <221> NAME/KEY: MISC_FEATURE
      94 <222> LOCATION: (9)..(9)
      95 <223> OTHER INFORMATION: arginine analogue at position 9
      97 <400> SEQUENCE: 4
W--> 99 Cys Val Ile Gly Tyr Ser Gly Asp Xaa Cys
     100 1               5                   10
     103 <210> SEQ ID NO: 5
     104 <211> LENGTH: 10
     105 <212> TYPE: PRT
     106 <213> ORGANISM: Artificial Sequence
     108 <220> FEATURE:
     109 <223> OTHER INFORMATION: Artificial Sequence
     112 <220> FEATURE:
     113 <221> NAME/KEY: MOD_RES
     114 <222> LOCATION: (1)..(1)
     115 <223> OTHER INFORMATION: ACETYLATION
     117 <400> SEQUENCE: 5
     119 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys
     120 1               5                   10
     123 <210> SEQ ID NO: 6
     124 <211> LENGTH: 10
     125 <212> TYPE: PRT
     126 <213> ORGANISM: Artificial Sequence
     128 <220> FEATURE:
     129 <223> OTHER INFORMATION: Artificial Sequence
     132 <220> FEATURE:
     133 <221> NAME/KEY: MOD_RES
     134 <222> LOCATION: (10)..(10)
     135 <223> OTHER INFORMATION: AMIDATION
     137 <400> SEQUENCE: 6
     139 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys
     140 1               5                   10
```

insufficient response - give source of genetic material (see item 11 on Error Summary Sheet)

```
143 <210> SEQ ID NO: 7
144 <211> LENGTH: 10
145 <212> TYPE: PRT
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Artificial Sequence
152 <220> FEATURE:
153 <221> NAME/KEY: MOD_RES
154 <222> LOCATION: (1)..(1)
155 <223> OTHER INFORMATION: Acteoamido methyl group
157 <220> FEATURE:
158 <221> NAME/KEY: MOD_RES
159 <222> LOCATION: (1)..(1)
160 <223> OTHER INFORMATION: ACETYLATION
162 <220> FEATURE:
163 <221> NAME/KEY: MOD_RES
164 <222> LOCATION: (10)..(10)
165 <223> OTHER INFORMATION: AMIDATION
167 <220> FEATURE:
168 <221> NAME/KEY: MOD_RES
169 <222> LOCATION: (10)..(10)
170 <223> OTHER INFORMATION: Acteoamido methyl group
172 <400> SEQUENCE: 7
174 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys
175 1               5                   10
178 <210> SEQ ID NO: 8
179 <211> LENGTH: 10
180 <212> TYPE: PRT
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Artificial Sequence
187 <220> FEATURE:
188 <221> NAME/KEY: MISC_FEATURE
189 <222> LOCATION: (5)..(5)
190 <223> OTHER INFORMATION: Tic-OH (tetrahydroisoquinoline) at position 5
192 <400> SEQUENCE: 8
194 Cys Val Ile Gly Xaa Ser Gly Asp Arg Cys
195 1               5                   10
198 <210> SEQ ID NO: 9
199 <211> LENGTH: 10
200 <212> TYPE: PRT
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Artificial Sequence
207 <220> FEATURE:
208 <221> NAME/KEY: MISC_FEATURE
209 <222> LOCATION: (9)..(9)
210 <223> OTHER INFORMATION: Citrulline at position 9
212 <400> SEQUENCE: 9
```

W--> 194 (handwritten annotations)

use one "i" → *Xaa can only represent a single amino acid, nothing else*

```
W--> 214 Cys Val Ile Gly Tyr Ser Gly Asp Xaa Cys
     215 1               5                    10
     218 <210> SEQ ID NO: 10
     219 <211> LENGTH: 9
     220 <212> TYPE: PRT
     221 <213> ORGANISM: Artificial Sequence
     223 <220> FEATURE:
     224 <223> OTHER INFORMATION: Artificial Sequence
     227 <220> FEATURE:
     228 <221> NAME/KEY: MISC_FEATURE
     229 <222> LOCATION: (5)..(5)
     230 <223> OTHER INFORMATION: 2',6'-dimethyl-beta-methyl-tyrosine at position 5 of linear
     231       sequence of amino acids 925-933 of the mature murine b1 chain
     233 <400> SEQUENCE: 10
W--> 235 Cys Asp Pro Gly Xaa Ile Gly Ser Arg
     236 1               5
     239 <210> SEQ ID NO: 11
     240 <211> LENGTH: 9
     241 <212> TYPE: PRT
     242 <213> ORGANISM: Artificial Sequence
     244 <220> FEATURE:
     245 <223> OTHER INFORMATION: Artificial Sequence
     248 <220> FEATURE:
     249 <221> NAME/KEY: MISC_FEATURE
     250 <222> LOCATION: (5)..(5)
     251 <223> OTHER INFORMATION: 2-O-methyl-tyrosine at position 5 of linear sequence of
amino
     252       acids 925-933 of the mature murine b1 chain
     254 <400> SEQUENCE: 11
W--> 256 Cys Asp Pro Gly Xaa Ile Gly Ser Arg
     257 1               5
     260 <210> SEQ ID NO: 12
     261 <211> LENGTH: 9
     262 <212> TYPE: PRT
     263 <213> ORGANISM: Artificial Sequence
     265 <220> FEATURE:
     266 <223> OTHER INFORMATION: Artificial Sequence
     269 <220> FEATURE:
     270 <221> NAME/KEY: MISC_FEATURE
     271 <222> LOCATION: (5)..(5)
     272 <223> OTHER INFORMATION: 2-O-ethyl-tyrosine at position 5 of linear sequence of amino
     273       acids 925-933 of the mature murine b1 chain
     275 <400> SEQUENCE: 12
W--> 277 Cys Asp Pro Gly Xaa Ile Gly Ser Arg
     278 1               5
     281 <210> SEQ ID NO: 13
     282 <211> LENGTH: 10
     283 <212> TYPE: PRT
     284 <213> ORGANISM: Artificial Sequence
     286 <220> FEATURE:
```

RAW SEQUENCE LISTING   DATE: 05/06/2003
PATENT APPLICATION: US/09/673,785C   TIME: 10:23:36

Input Set : A:\8830-170.ST25.txt
Output Set: N:\CRF4\05062003\I673785C.raw

```
    287 <223> OTHER INFORMATION: Artificial Sequence
    290 <220> FEATURE:
    291 <221> NAME/KEY: MISC_FEATURE           Xaa can only represent a single amino acid
    292 <222> LOCATION: (5)..(5)
    293 <223> OTHER INFORMATION: Tic-OH substituted at position 5 of sequence based on mEGF
32-42
    295 <220> FEATURE:
    296 <221> NAME/KEY: MISC_FEATURE
    297 <222> LOCATION: (9)..(9)
    298 <223> OTHER INFORMATION: Citrulline at position 9 of sequence based on mEGF 32-42
    300 <400> SEQUENCE: 13
W--> 302 Cys Val Ile Gly Xaa Ser Gly Asp Xaa Cys
    303 1               5                   10
    306 <210> SEQ ID NO: 14
    307 <211> LENGTH: 10
    308 <212> TYPE: PRT
    309 <213> ORGANISM: Artificial Sequence
    311 <220> FEATURE:
    312 <223> OTHER INFORMATION: Aritificial Sequence    Please correct this type of
    315 <220> FEATURE:                                   error in subsequent sequences
    316 <221> NAME/KEY: DISULFID
    317 <222> LOCATION: (1)..(10)
    318 <223> OTHER INFORMATION: Disulphide bond betwen N and C terminal cysteines of
sequence
    319         based on mEGF 33-42
    321 <400> SEQUENCE: 14
    323 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys
    324 1               5                   10
    327 <210> SEQ ID NO: 15
    328 <211> LENGTH: 20
    329 <212> TYPE: PRT
    330 <213> ORGANISM: Artificial Sequence
    332 <220> FEATURE:
    333 <223> OTHER INFORMATION: Artificial Sequence corresponding to COOH terminal end of
the
    334         human laminin receptor
    336 <400> SEQUENCE: 15
    338 Pro Thr Glu Asp Trp Ser Ala Gln Pro Ala Thr Glu Asp Trp Ser Ala
    339 1               5                   10                  15
    342 Ala Pro Thr Ala
    343             20
    346 <210> SEQ ID NO: 16
    347 <211> LENGTH: 10
    348 <212> TYPE: PRT
    349 <213> ORGANISM: Artificial Sequence          Explain source
    351 <220> FEATURE:
    352 <223> OTHER INFORMATION: Artificial Sequence - peptide substitution I
    355 <220> FEATURE:
    356 <221> NAME/KEY: MOD_RES
    357 <222> LOCATION: (1)..(1)
    358 <223> OTHER INFORMATION: ACETYLATION
    360 <220> FEATURE:
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/06/2003
PATENT APPLICATION: US/09/673,785C   TIME: 10:23:37

Input Set : A:\8830-170.ST25.txt
Output Set: N:\CRF4\05062003\I673785C.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 5
Seq#:4; Xaa Pos. 9
Seq#:8; Xaa Pos. 5
Seq#:9; Xaa Pos. 9
Seq#:10; Xaa Pos. 5
Seq#:11; Xaa Pos. 5
Seq#:12; Xaa Pos. 5
Seq#:13; Xaa Pos. 5,9
Seq#:19; Xaa Pos. 9
Seq#:20; Xaa Pos. 5
Seq#:27; Xaa Pos. 3,5
Seq#:29; Xaa Pos. 4,7
Seq#:30; Xaa Pos. 4,7
Seq#:31; Xaa Pos. 5

VERIFICATION SUMMARY   DATE: 05/06/2003
PATENT APPLICATION: **US/09/673,785C**   TIME: 10:23:37

Input Set : **A:\8830-170.ST25.txt**
Output Set: **N:\CRF4\05062003\I673785C.raw**

```
L:15  M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:79  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:99  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
```